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## 

Product ID:FORMALDEHYDE 37%

MSDS Date:03/23/1998

FSC:6550

NIIN:00-139-1321

Status Code:A

MSDS Number: CJFHQ === Responsible Party ===

Company Name: MALLINCKRODT BAKER, INC.

Address:222 RED SCHOOL LANE

City:PHILLIPSBURG

State:NJ ZIP:08865 Country:US

Info Phone Num:800-582-2537 Emergency Phone Num:20

1-859-2151/800-424-9300(CHEMTR) Resp. Party Other MSDS Num.:F5522

Preparer's Name:STRATEGIC SERVICE DIV.

Chemtrec Ind/Phone:(800)424-9300

CAGE:70829

=== Contractor Identification ===

Company Name: J.T.BAKER CHEMICAL CO.

Address:222 RED SCHOOL LANE

City:PHILLIPSBURG

State:NJ

ZIP:08865-2219

Country:US

Phone:201-859-2151

CAGE:DO870

Company Name: MALLINCKRODT BAKER, INC.

Address:222 RED SCHOOL LANE

Box:City:PHILLIPSBURG

State:NJ ZIP:08865 Country:US

Phone:800-582-2537

CAGE:70829

====== Compo

sition/Information on Ingredients =======

Ingred Name: FORMALDEHYDE (SARA III)

CAS:50-00-0

RTECS #:LP8925000

= Wt:37.

Other REC Limits: NONE SPECIFIED

OSHA PEL:SEE 1910.1048

ACGIH TLV:C 0.3 PPM; A2; 9293

EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name: METHYL ALCOHOL (METHANOL) (SARA III)

CAS:67-56-1

RTECS #:PC1400000 Minumum % Wt:10. Maxumum % Wt:15.

Other REC Limits: NONE SPECIFIED

OSHA PEL:S,200PPM/250STEL

ACGIH TLV:S,200PPM/250STEL; 93

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingr

ed Name:WATER. CAS:7732-18-5 RTECS #:ZC0110000 Minumum % Wt:48. Maxumum % Wt:53.

========== Hazards Identification ===========================

LD50 LC50 Mixture:LD50(ORAL RAT) IS 800 MG/KG-FORMALDEHYDE

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:INHALATION-CAUSES IRRITATION AND SENSITIZATION OF THE RESPIRATORY TRACT. MAY BE FATAL IN HIGH CONCENTRATIONS. INGESTION-LARGER DOSES

MAY PRODUCE DECREASED BODY

TEMPERATURE, PAIN IN DIGESTIVE TRACT, SH ALLOW RESPIRATION, WEAK IRREGULAR PULSE, UNCONSCIOUSNESS AND DEATH. SKIN-TOXIC. MAY CAUSE IRRITATION TO SKIN. FORMALDEHYDE IS A SEVER SKIN IRRITANT AND SENSITIZER. EYE-VAPORS CAN CAUSE IRRITATION TO THE EYES. HIGHER CONCENTRATIONS OR SPLASHES MAY CAUSE IRREVERSIBLE EYE DAMAGE.

Explanation of Carcinogenicity: CONTAINS FORMALDEHYDE [50-00-0] WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCIN

## OGEN.

Effects of Overexposure:INHALATION-MAY CAUSE SORE THROAT, COUGHING AND SHORTNESS OF BREATH. INGESTION-CAN CAUSE SEVERE ABDOMINAL PAIN, VIOLENT VOMITING, HEADACHE, AND DIARRHEA. METHANOL COMPONENTS AFFECT THE OPTIC NERVE AND MAY CAUSE BLINDNESS. SKIN-MAY CAUSE REDNESS, PAIN AND POSSIBLY BURNS. CONTACT CAUSES WHITE DISCOLORATION, SMARTING, CRACKING AND SCALING. EYE-VAPORS CAUSES REDNESS, PAIN AND BLURRED VISION.

Medical Cond Aggravated by Exposure:PERSONS WITH PREEXIS TING SKIN

DISORDERS OR EYE PROBLEMS, OR IMPAIRED LIVER, KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

First Aid:INHALATION:REMOVE TO FRESH AIR, PROVIDE CPR/OXYGEN IF NEEDED. CALL A PHYSICIAN. EYE CONTACT: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY. SKIN CONTAC T: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MIN W HILE

REMOVING CONTAMINATED CLOTHING/SHOES. GET MEDICAL ATTENTION IMMEDIATELY. INGESTION: IF SWALLOWED & VICTIM IS CONSCIOUS, DILUTE, INACTIVATE, O R ABSORB THE INGESTED FORMALDEHYDE BY GIVING MILK, ACTIVATED CHARCOAL OR WATER. ANY ORGANIC MATERIAL WILL INACTIVATE FORMALDEHYDE. KEEP AFFECTED PERSON WARM AND AT REST. GET MEDICAL ATTENTION IMMEDIAT ELY.

Flash Point Method:CC Flash Point:=60.C, 140.F

Autoi

gnition Temp:=300.C, 572.F

Lower Limits:7.0% Upper Limits:73.0%

Extinguishing Media:WATER SPRAY, DRY CHEMICAL, ALCOHOL FOAM, OR CARBON DIOXIDE.

Fire Fighting Procedures:IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard: ABOVE FLASH POINT, VAPOR-AIR MIXTURES ARE EXPLOSIVE WITHIN FLAMMABLE LIMITS. CONTAINERS



======== Accidental Release Measures ===========

Spill Release Procedures: VENTILATE AREA. REMOVE ALL SOURCES OF IGNITION. WEAR APPROPIATE PERSONAL PROTECTIVE EQUIPMENT. ISOLATE HAZARD AREA. KEEP UNNECESSARY AND UNPROTECTIVE PERSONNEL FROM ENTERING. CONTAIN SPILL AND RECOVE R LIQUID WHEN POSSIBLE. USE NON-SPARKING TOOLS AND EQUIPMENT. COLLECT LIQUID IN APPROPIATE CONTAINER OR ABSORB WITH AN INERT MATERIAL AND PLACE IN A CHEMICAL

WASTE CONTAINER.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:STORE IN TIGHTLY CLOSED CONTAINER.
PROTECT FROM PHYSICAL DAMAGE. STORE IN COOL, DRY, WELL-VENTILATED
LOCATION, AWAY FROM ANY AREA WHERE THE FIRE HAZARD MAY BE ACUTE.
OUTSIDE OR DETACHED STORAGE IS PRE FERRED. SEPERATE FROM
INCOMPATIBLES. CONTAINER SHOULD BE BONDED AND GROUNDED FOR
TRANSFER

Other Precautions:KEEP AWAY FROM HEAT, SPARKS AND FLAME. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. DO NOT BREATHE VAPORS. KEEP CONTAINER CLOSED. USE ONLY WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

====== Exposure Controls/Personal Protection ========

Respiratory Protection:IF THE EXPOSURE LIMIT IS EXCEEDED, A FULL FACEPIECE RESPIRATOR WITH A FORMALDEHYDE CARTRIDGE MAY BE WORN UP TO 50 TIMES THE EXPOSURE LIMIT OR THE MAXIMUM USE CONCENTRATIO N

SPECIFIED BY THE APPROPIATE REGULATORY AGENCY OR RESPIRATOR SUPPLIER, WHICHEVER IS LOWEST.

Ventilation:LOCAL OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE AIRBORNE EXPOSURE LIMITS.

Protective Gloves:WEAR GLOVES.

Eye Protection: CHEMICAL SAFETY GOGGLES/FULL FACE SHIELD Other Protective Equipment: WEAR IMPERVIOUS PROTECTIVE CLOTHING, INCLUDING BOOTS, GLOVES, LAB COAT, APRON OR COVERALLS, AS APPROPIATE TO PREVENT SKIN CONTACT.

Work Hygienic Practices:OB

SERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

THE PERCEPTION OF FORMALDEHYDE BY ODOR AND EYE IRRITATION BECOMES LESS SENSITIVE WITH TIME AS ONE ADAPTS TO FORMALDEHYDE. THIS CAN LEAD TO OVEREXPOSURE IF A WORKER IS RELYING ON SMELL TO ALERT HIM OR HER TO THE POTENTIAL FOR EXPOSURE.

======== Physical/Chemical Properties ===========

HCC:F6

Boiling Pt:=96.1C, 205

F

Vapor Pres:1.3 Vapor Density:1.0 Spec Gravity:1.08

pH:2.8

Solubility in Water: COMPLETE

Appearance and Odor: CLEAR COLORLESS LIQUID, PUNGENT ODOR

Percent Volatiles by Volume:100

======== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS, STRONG ALKALIES AND ACIDS, ALKALI METALS, AMINES AND AMMONIA, PHENOL AND REDUCING AGENTS.

Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES Hazardous Decomposition P

roducts:FORMALDEHYDE AND CARBON MONOXIDE AND CARBON DIOXIDE.

Conditions to Avoid Polymerization:TRIOXYMETHYLENE PRECIPITATE CAN BE FORMED ON LONG STANDING AT VERY LOW TEMP. NONHAZARDOUS PARAFORMALDEHYDE AT LOW TEMP.

======= Disposal Considerations ===========

Waste Disposal Methods:WHATEVER CANNOT BE SAVED FOR RECOVERY OR RECYCLING SHOULD BE HANDLED AS HAZARDOUS WASTE AND SENT TO A RCRA APPROVED INCINERATOR OR DISPOSED IN A RCRA APPROVED WASTE FACILI

DISPOSE OF CONTAINER AND UNUSED CONTENTS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS.
======== MSDS Transport Information ==========
Transport Information:PROPER SHIPPING NAME: RQ, FORMALDEHYDE SOLUTION, FLAMMABLE, HAAZARD CLASS: 3,8, UN/NA: UN1198, PACKING GROUP III, INFORMATION REPORTED FOR PRODUCTS/SIZE: 475 LBS.
=========== Regulatory Information =============
SARA Title III Information:SARA 311/312: ACUTE: YES. CHRONIC: YES. FIRE: YES. PRESSURE: NO. REACTIVITY: NO. State Regulatory Information:WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOW TO THE STATE OF CALIFORNIA TO CAUSE CANCER.
========== Other Information =============
Disclaimer (provided with this information by the compiling agencies):

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